

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-069783

(43)Date of publication of application : 16.03.2001

(51)Int.Cl.

H02P 6/18

(21)Application number : 11-245099

(71)Applicant : JAPAN SCIENCE & TECHNOLOGY CORP

(22)Date of filing : 31.08.1999

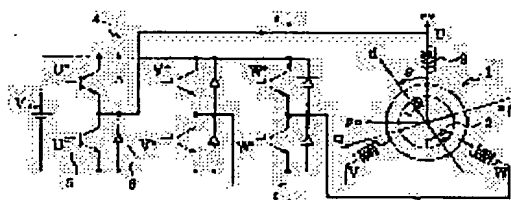
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(54) CONTROL METHOD OF A PERMANENT MAGNET TYPE SYNCHRONOUS MOTOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a control method for a permanent magnet type synchronous motor in which reliability can be enhanced while reducing the size, weight and price by estimating the parameters of the motor using a motor drive without requiring any rotor position sensor.

SOLUTION: In the control method for a permanent magnet type synchronous motor, a parameter of the motor, i.e., the inductance of the motor, is measured based on the respective phase currents $I_u(TS)$, $I_v(TS)$, and $I_w(TS)$ being detected when an ON signal is applied for a short time TS to a specific switching element in an inverter 4 under zero initial current state during stoppage of the motor.



LEGAL STATUS

[Date of request for examination]

18.11.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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